MPIC/TSSG/RED-107-70 3 April 1970

MEMORANDUM FOR: Chief, Technical Services & Support Group, MPIC

ATTENTION : TSSG/PPS

SUBJECT : RED Monthly Report on Significant Events (March 1970)

A. Significant Items of Interest for March 1970.

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presented a talk, film and demonstration of black material to MPIC personnel. Two of their latest materials, as well as some full color possibilities, were presented. The loan of a DYLUX processor from the is being arranged so that MPIC PI's can give an Operational Evaluation of the various materials marketed by

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Stereocomparator has been presented to NPIC personnel.

was briefed on 26 March. The Staff Study has been forwarded.

3. Computer Core Memory. The Staff Study for the Additional Computer Core Memory for the Staff Study for the Additional Computer Core Memory for the DDI for approval.

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High Precision Stereocomparator Program. Project Manager is at and expects to start the acceptance tests on the optics on 31 March 1970. If all goes well, the tests will be completed by 17 April, and the optical system shipped to 28 April 1970.

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- 5. Basic Research in Precise Measurement. Proposals have been evaluated; the briefings and paper work are being prepared.
- 6. PI Scan & Search Station, Phase II. Proposals and cost breakdowns to fabricate the PI Scan & Search Station have been received. The proposal information has been presented to the goordinating committee.
- 7. Step & Repeat Contract Printer. A proposal has been received for the preliminary design of the Step and Repeat Contract Printer. This is currently being coordinated with PSG.

Declass Review by NIMA/DOD

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GROUP 1
Excluded from automotic towngrading and declassification

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8.	1540 Light Table. The prototype models of the 1540 Light Tables
	have been delivered by The tables are being
	evaluated in TSSG/ESD. Technical specifications are being pre-
	pared for the follow-on production models.

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9. Advanced Stereo Rhomboids II. The Advanced Stereo Rhomboids II have been delivered by This item is being tested and evaluated in TSSG/ESD. Technical specifications have been prepared and turned over to TSSG/SCAPS for the production models.

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- 10. 940 Light Table. A Project Approval Request for a vibration enalysis of the 940 Light Tables has been prepared and forwarded to Chief. TSSG.
- 11. Low Power Objectives. A proposal to determine the feasibility of providing low power objectives for the Advanced Stereo Rhomboids II has been evaluated. The approval memo has been forwarded to Chief. TSSG.
- 12. Retrofit Film Transport Kit. On March 26, the Retrofit Film Transport Kit was accepted at the kit (mounted on a GFE MIM # Light Table) will be delivered to MPIC in early April.

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13. Wide Field Eyeplece. The Wide Field Eyeplece for the High Power Stereoviewer was completed by

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and was delivered to NPIC on 30 March 1970.

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14. Improved Lamp Performance Study. The contract for the Improved Lamp Ferformance Study with was signed on 6 March 1970.

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15. Eveniece for Zoom 240. A proposal for a Wide Field Eyepiece Set for the Zoom 240 was received from and and evaluated. 25X1A

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16. 10" x 10" Stage Stereocomparator. A revised proposal for a 10" x 10" Stage Stereocomparator was received from the and evaluated.

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Measurements of Threshold Targets. On March 20, discussions were held with of RADC and representatives from regarding the study sponsored by RADC on Measurements of Threshold Targets. The study will be beneficial to MPIC; MPIC will give limited support to the task.

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18.	Image Quality. On 12 March a conference was held between Drs. and ATB personnel regarding Image Quality Tasks on which the	25X1A
	may be able to assist NPIC. is coordinating efforts in this area.	25X1A 25X1A
19.	of CMS/FPS met with regarding CMS assistance to ATB in several areas.	25X1A
20,	decided from several alternatives to install the Digital Image Manipulation (DIM) Input/Output System in Room 18807. The system will be located with a 11 X 11 foot portable laminar	25X1A 25X1A
21.	flow clean room. The completion date is presently set at 30 May to accommodate the receipt of the equipment from the of EL/ATB	25X1A
	have been performing spectrographic and chromatographic analyses of cooling oil in 940 light Tables. Preliminary results indicate the oil may be changing color due to UV and thermal breakdown problems. Continuing tests in conjunction with ESD are aimed at isolating the effects causing such color changes.	
22.	DV Reission. ATB has received the final results of a test performed by the National Bureau of Standards on UV emission from a 940 Light Table. These indicate no significant emissions below 3650 A and approximately 1 micro-watt 1 cm at that value. Further data can be obtained from ATB memo 072/70 dated 26 March.	
23.	Contact Lens Acceptance Survey. has analyzed the results of a Contact Lens Acceptance Survey conducted in IEU thru ATB at the request of Results are tabulated	25X1A 25X1A
24.	in ATB-064/70 of 26 March. 10587 Support. is continuing on a full-time continuing on the area of Image Manipulation.	25X1A
25,	Division, National Bureau of Standards. division contains several elements of interest to ATB, including a	25X1A 25X1A
	Behavioral Sciences Group headed by	20A IA

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The T. A. Division also possesses resources in statistical analysis and operation research which may be applied to our problems. Follow-up actions are planned with meetings and the NBS Behavioral Sciences personnel. between Image Comparison Microstereoscope. Final alignment of all four optical paths has started; however, concurrent check of the anymorphic subassemblies has just revealed the presence of is checking astigmatism in 3 of the 4 paths. 25X1A the anamorphic prisms against the specs and refabrication may be necessary. This would delay delivery a number of weeks. The Project Officer will visit on 13 April, with our consultant, 25X1A and review the problem. 25X1A 27. Automatic Stereo Scanner. On 26 March 1970, a briefing was recommending an Engineering Audit by given to in lieu of continuing the development. It was decided to pursue both the Engineering Audit and a test and simula-25X1A Stereo Comparator, as preludes to completion of the Automatic Stereo Scanner. Meetings were in preparation for held at MPIC with 25X1A this test proposal (expected in early May 1970). Arrangements were made to discuss with their proposal on 7 April 1970 25X1A at MPIC. We are working towards starting both efforts by 1 June 1970. 28. Stereogram Printer Optical Development. 25X1A is continuing two optical approaches -- one approach with prismatic anamorphosers and another utilizing cylindrical elements. It is anticipated that a selection can be made in April. Relaxation of magnification and anamorphic specs was considered, but will be reserved as last resorts. A draft of the revised statement of work was

reviewed, but has not yet been received in final form.

29. Briefings.

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an RED consultant from the National Bureau of Standards, presented a briefing to interested MPIC personnel on 10 March on Color Perception in the Center Auditorium.

briefed ten R&D personnel from MRTSC on Image Manipulation on 18 March.

personnel briefed and Group On 19 March, Chiefs on the Mid-70's PI Workstation.

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On 9 March, presented a briefing to proposel for study of Electronic Image Displays.

On 24 March, presented a briefing on the Adage proposal for Interactive Display System. Following this, on
23-27 March, showed a movie of RED's Adage demonstration to several NPIC personnel including
On 27 March, showed this same movie of RED's

Adage demonstration to DIA personnel in

d a briefing to TSSG, 25X1A

On March 31, resented a briefing to and PPBS, on the Viewing Systems Study.

30. Training.

from 2-6 March 1970.

Deputy Chief, Research & Engineering Division, NPIC

Attachment: TCS-6627/70

Distribution:

Original - MPIC/TSSG w/att.

2 - MFIC/TSSG/RED w/o att.